WHAT IS CLAIMED IS:

1. An optical lens system comprising:

a first optical lens having a first region and a perimeter region; an electro-active refractive matrix coupled to the first region of the optical lens,

the perimeter region of the lens being removable to configure the optical lens for a specific eyeglass frame.

- 2. The optical lens system of claim 1 wherein more than 30% of the perimeter region of the lens may be removed from the optical lens to configure the optical lens for a specific eyeglass frame.
- 3. The optical lens system of claim 1 wherein more than 60% of the perimeter region of the lens may be removed from the optical lens to configure the optical lens for a specific eyeglass frame.
- 4. The optical lens system of claim 1 wherein the electro-active refractive matrix includes patterned electrodes.
- 5. The optical lens system of claim 1 wherein the electro-active refractive matrix includes a diffractive element.
- 6. The optical lens system of claim 1 wherein the electro-active refractive matrix includes a plurality of pixilated elements.
- 7. The optical lens system of claim 1 further comprising: a controller and a conductor bus coupled to the first optical lens.
- 8. The optical lens system of claim 7 wherein the controller includes a power source.

- 9. The optical lens system of claim 1 further comprising: a second optical lens coupled to the first optical lens, the second optical lens covering at least a portion of the electro-active refractive matrix.
- 10. The optical lens system of claim 1 further comprising: a conductor bus positioned along a radius of the first optical lens, the conductor bus coupling the perimeter region of the first optical lens to the electro-active refractive matrix.
- 11. The optical lens system of claim 1 further comprising: a range finder coupled to the first optical lens; and a power source coupled to the first optical lens.
- 12. The optical lens system of claim 1 wherein the electro-active refractive matrix is coupled to a carrier.
- 13. The optical lens system of claim 12 wherein a controller, a range finder, and a power source are coupled to the carrier and wherein the electro-active refractive matrix includes a diffractive element.
- 14. An optical lens system comprising:
 - a first optical lens having a first fixed outer surface, a second fixed outer surface, and an outer perimeter;
 - an electro-active refractive matrix coupled to the lens; and a conductor coupled to the electro-active refractive matrix, the conductor accessible from the outer perimeter of the lens.

- 15. The optical lens system of claim 14 further comprising:

 a controller coupled to the conductor bus and coupled to the first optical lens.
- 16. The optical lens system of claim 15 wherein the controller includes a power source and wherein the outer perimeter is removable to modify the perimeter shape of the lens.
- 17. The optical lens system of claim 14 further comprising:

 a second optical lens coupled to the first optical lens, the second optical lens covering at least a portion of the electro-active refractive matrix.
- 18. The optical lens system of claim 14 wherein the conductor bus is positioned along a radius of the first lens and couples the outer perimeter to the electro-active refractive matrix.
- 19. The optical lens system of claim 14 further comprising:a range finder coupled to the first optical lens; anda power source coupled to the first optical lens.
- 20. The optical lens system of claim 14 wherein the electro-active refractive matrix is coupled to a carrier.
- 21. The optical lens system of claim 20 further comprising:

 a controller coupled to the conductor bus wherein the electro-active refractive matrix, the controller, the range finder, and the power source are also coupled to a carrier.

- 22. The optical lens system of claim 14 further comprising:

 a conductor encircling the outer perimeter of the first optical lens.
- 23. The optical lens system of claim 14 wherein the electro-active refractive matrix includes a plurality of patterned electrodes.
- 24. The optical lens system of claim 14 wherein the conductor is translucent.
- 25. An optical lens system containing an optical lens comprising:

 a frame, the frame having a lens support and a temple region;

an optical lens coupled to the lens support, the optical lens including an electro-active refractive matrix;

a controller coupled to the electro-active refractive matrix; and,

a range finder coupled to the controller.

- 26. The lens system of claim 25 further comprising:
 a strap, the strap coupled to the frame and the controller.
- 27. The lens system of claim 25 further comprising:

 a signal conductor coupling the controller and the electroactive refractive matrix, the signal conductor passing through a lumen in the temple region of the frame.
- 28. The lens system of claim 25 further comprising:

 a power source coupled to a nose pad of the frame.

- The lens system of claim 25 wherein the range finder and a power source are coupled to the frame.
- 30. The lens system of claim 25 wherein the lens support contains at least one signal conductor.
- 31. A method of assembling an optical lens system for use in eyewear comprising:

placing an electro-active refractive matrix into a cavity of a first optical lens; and

covering at least a portion of the electro-active refractive matrix with a second optical lens.

32. The method of claim 31 further comprising: coupling a controller and a power source to the electro-

active refractive matrix.

- 33. The method of claim 31 further comprising:
 edging the first optical lens to fit a designated eyewear frame.
- 34. The method of claim 31 further comprising:
 growing a power source on the first or second optical lens.
- 35. The method of claim 31 wherein placing the electro-active refractive matrix into the cavity includes applying a flexible membrane onto a surface of the optical lens.
- 36. The method of claim 31 further comprising: forcing contact leads from the controller into a communication bus embedded in the first lens.

- 37. The method of claim 31 further comprising:wrapping the first optical lens with a signal conductor.
- 38. The method of claim 31 further comprising:

 modifying the refractive power of either the first lens or the second lens.
- The method of claim 31 further comprising:edging and cutting the recess into the first lens.
- 40. The method of claim 31 wherein the cavity is centered in the line of sight of a user's eye.
- A system for controlling an electro-active refractive matrix in an optical lens, the system comprising:

a radiation sensor coupled to a power source;

- a light emitting diode coupled to a power source; and
- a controller coupled to a power source.
- 42. The system of claim 41 wherein the radiation sensor and the light emitting diode are juxtaposed to one another and are both coupled to the controller.
- 43. The system of claim 41 wherein the power source is attached to the controller.
- The system of claim 41 wherein the controller is programmed to generate signals to compensate for the refractive error of a predetermined user.





45. A method of assembling eyewear comprising:

providing a lens system having an electro-active refractive matrix, the lens system also having a fixed outer surface;

modifying the shape of the lens system by edging an outer perimeter of the lens system; and

placing the lens system into an eyewear frame.

- 46. The method of claim 45 further comprising:
 - coupling a conductor of the lens system to a conductor of the eyewear frame.
- 47. The method of claim 45 wherein the electro-active refractive matrix includes a plurality of individual pixels.
- 48. An optical lens system comprising:

an optical lens having a first fixed lens face and a second fixed lens face;

an electro-active refractive matrix positioned between the first fixed lens face and the second fixed lens face; and

a plurality of busses coupled to said electro-active refractive matrix.

- 49. A method of assembling an optical lens system comprising:
 - providing a lens blank, the lens blank having an electroactive refractive matrix; and
 - removing material from the lens blank to configure the lens blank to fit within a specified eyeglass frame.
- 50. The method of claim 49 wherein the electro-active refractive matrix contains patterned electrodes.